

**Baggy Science**

**Materials**

Baking soda

Calcium chloride (rock salt or de-icer works too) or cream of tartar

Bromothymol blue solution

Paper towels

Plastic container (like a film canister)

Teaspoon

Tablespoon

medium-sized sealable bag

**Procedure**

1. Place 1 teaspoon of baking soda into one corner of the sealable bag

2. Place 2 teaspoons of calcium chloride into the same bag, but opposite corner.

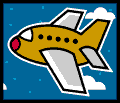
3. Measure and pour 2 tablespoons of bromothymol blue into plastic container.

4. Carefully place container in sealable bag so that it doesn’t spill.

5. Seal the bag without spilling the liquid.

6. Tip the container and mix the two chemicals with the liquid.

7. Observe and record any changes.



**Constructing a Cylindrical Wing**

**Materials**

One sheet of blank paper

Ruler

Pencil or Pen

Tape

**Procedure**

1. Set up two lines on a blank sheet of paper: one 1.25 cm from the left edge; one 6.25 cm from the right edge

1.25 cm 6.25 cm

A

B

2. Fold along the 1.25 cm line.

3. Continue folding in the same direction until you reach the 6.25 cm line (or close to it).

4. Roll into a cylinder matching A end with B end.

5. Tape seam of cylinder and round cylinder out.

c/o **http://www.exo.net/~donr/activities/Cylindrical\_Wing.pdf**

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**Alka-Seltzer Rockets**

**Materials**

Film Canister (the type that the lid seals from the inside)

Water

Plastic cup

Alka-Seltzer Tablet (4 tablets per group)

Ruler or measuring tape

1 m by 1m area on the floor taped out and designated as the launch pad. This area needs to be clear of everything.

Optional – rocket design (see attached figure)

Blank paper

Scissors

Tape

**Procedure**

**Part 1 – demonstrate to student**

1. Prepare an Alka Seltzer rocket (see attached figure).

2. Half fill a film canister with water.

3. Add a quarter of one Alka-Seltzer tablet and quickly cap the canister.

4. Quickly turn rocket upside and place on the launch pad.

5. Back out of launch pad by at least a meter and watch.

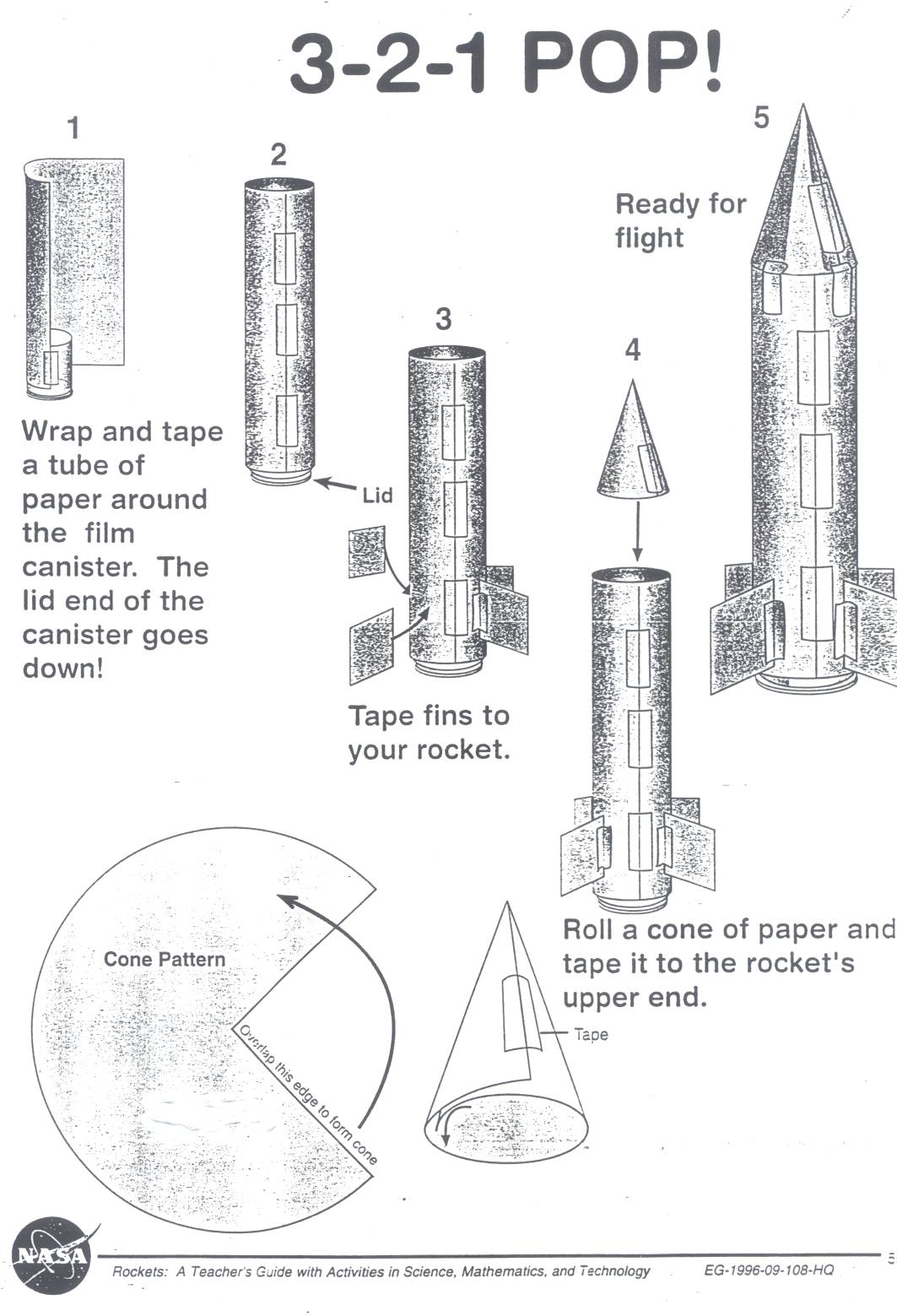
**Part 2 – student practice**

1. Students prepare a rocket and try to replicate the same results as the teacher.

2. Record observations.

**Part 3 – use Smarter Science Posters**

1. Students choose their own variable to change, test and compare to teacher rocket. The teacher rocket is the control.



**Musical Drinking Straw**

**Materials**

Straw

Scissors

**Procedure**

1. Press one end of the straw together and cut it to a point (see diagram).

2. Place the straw against your top palate.

3. Blow through it to make a noise.

4. Carefully, with a pair of scissors, cut the length of the straw to make it shorter while you’re blowing through the straw. Continue to cut the straw and make observations on any changes to the sound.

